

## Claims

- [c1] 1. A method of fabricating a light guide plate, comprising the steps of:
  - providing a thin film having a transfer material layer thereon;
  - providing a molding machine having a cavity therein;
  - disposing the thin film inside the molding machine such that at least a portion of the transfer material layer is located within the cavity; and
  - forming a light guide plate body inside the cavity such that the transfer material layer is transferred on the light guide plate body.
- [c2] 2. The method of claim 1, wherein the transfer material layer comprises a light-scattering patterned layer.
- [c3] 3. The method of claim 1, wherein a step of forming the transfer material layer over the thin film comprises:
  - forming a light-reflecting layer over the thin film; and
  - forming a light-scattering patterned layer over the light-reflecting layer.
- [c4] 4. The method of claim 3, wherein the light guide plate body comprises a light output surface, a bottom surface,

at least a light incident surface and a plurality of side surfaces, wherein the light incident surface and the side surfaces are adjacent to and positioned between the bottom surface and the light output surface, and the light-scattering patterned layer and the light-reflecting layer are transferred on the bottom surface.

- [c5] 5. The method of claim 4, wherein the light-reflecting layer is further transferred on the side surfaces.
- [c6] 6. The method of claim 1, wherein the step of disposing the thin film inside the molding machine comprises applying a tape-spooling mechanism to reel the thin film over the molding machine so that at least a portion of the transfer material layer is disposed inside the cavity.
- [c7] 7. The method of claim 6, wherein the transfer material layer comprises a plurality of patterned blocks so that at least one of the patterned blocks aligns with the cavity after reeling the thin film forward a fixed distance.
- [c8] 8. A light guide plate, comprising:
  - a light guide plate body having a light output surface, a bottom surface, at least a light incident surface and a plurality of side surfaces, wherein the light incident surface and the side surfaces are adjacent to and positioned between the bottom surface and the light output surface;

and  
a transfer material layer disposed on the bottom surface.

- [c9] 9. The light guide plate of claim 8, wherein the transfer material layer and the light guide plate body are formed into a unity.
- [c10] 10. The light guide plate of claim 8, wherein the transfer material layer comprises a light-scattering patterned layer.
- [c11] 11. The light guide plate of claim 8, wherein the transfer material layer further comprises:
  - a light-scattering patterned layer disposed on the bottom surface; and
  - a light-reflecting layer disposed over the bottom surface and covering the light-scattering patterned layer.
- [c12] 12. The light guide plate of claim 11, wherein the light-reflecting layer is disposed on the side surfaces.